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Abstract

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As a novel heat exchanger (1), the proposal is for a device in which the two mutually separated fluid flow chambers (18, 10b) operated on the cross-flow or counter-flow system in a bionic manner penetrate mutually intensively with the best possible heat transfer area. The box-like or hollow cylindrical flow chamber (18) of the one fluid is penetrated by the flow chamber of the other fluid, which consists of helically structured pipes or hoses or conjoined helical bunches thereof or superhelically wound bunches of pipes or hoses. The proposed heat exchangers may be used, for instance, in heating boilers, gas-gas recuperators, air heaters and waste water through-flow coolers.

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